Index of Claims

| Α | pp | lica | atio | n/Co | ntrol | No. |
|---|----|------|------|------|-------|-----|
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10/677,908

Daniel S. Larkin

Examiner

Applicant(s)/Patent under Reexamination

FRUHBERGER ET AL.

Art Unit

2856

Rejected Allowed

(Through numeral) Cancelled

Restricted

Non-Elected N

Interference

**Appeal** Α 0 Objected

|       |   |                                       |          |              |  |          |          |  |          | _              |  |
|-------|---|---------------------------------------|----------|--------------|--|----------|----------|--|----------|----------------|--|
| Cla   | im  | Date                                  |          |              |  |          |          |  |          |                |  |
| Final | Original  | 6/12/05                               |          |              |  |          |          |  |          |                |  |
|       | 1   |                                       |          |              | Г  |          | Т        |  |          | П              |  |
|       | 1<br>2<br>3<br>4<br>5<br>6  |                                       |          |              |  |          | Г        |  |          |                |  |
|       | 3   |                                       |          |              |  |          |          |  |          |                |  |
|       | 4   |                                       |          |              |  |          |          |  |          |                |  |
|       | 5   |                                       |          |              |  |          |          |  |          | Ш              |  |
|       | 6_  | L                                     | _        |              | $ldsymbol{ld}}}}}}$ | _        |          | _  | _        | Ш              |  |
|       | 7   | <u> </u>                              | <u> </u> | L            | _  | _        | _        | _  |          | Ш              |  |
|       | 8   | <u> </u>                              | <u> </u> | _            |  | <u> </u> | _        | <u> </u>   | _        | Н              |  |
|       | 9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>29<br>30<br>31<br>32<br>33 | ┝                                     | ⊢        | <u> </u>     | <u> </u>   | <u> </u> | ⊢        | ┝  | <u> </u> | Н              |  |
|       | 11  | ⊢                                     | ⊢        | ┝            | _  | _        | <u> </u> | -  | <u> </u> | H              |  |
|       | 12  | -                                     | ┝        | ┝            | -  | -        | $\vdash$ | -  |          | Н              |  |
|       | 13  | $\vdash$                              | ┢        | <del> </del> | -  | -        | -        | $\vdash$   | $\vdash$ | Н              |  |
|       | 14  | $\vdash$                              | ┢一       | ┢            | _  | -        | _        | -  | ┢        | Н              |  |
|       | 15  | H                                     | H        | -            |  | ┢        | $\vdash$ | _  | _        | H              |  |
|       | 16  | Г                                     |          |              |  | Г        |          |  |          | П              |  |
|       | 17  | $\vdash$                              |          |              |  |          |          | T  |          | П              |  |
|       | 18  |                                       | П        |              |  |          |          |  |          | П              |  |
|       | 19  |                                       |          |              |  |          |          |  |          |                |  |
|       | 20  |                                       |          |              |  |          |          |  |          |                |  |
|       | 21  | 1                                     |          |              |  |          |          |  |          | Ш              |  |
|       | 22  | 1                                     | _        |              |  |          | _        | L  | L        | Ш              |  |
|       | 23  | 1                                     | <u> </u> | L            |  | <u>_</u> | _        | _  |          | Ш              |  |
|       | 24  | 1                                     | L        | _            |  |          | _        | <u> </u>   |          | Ш              |  |
| -     | 25  | 1                                     | _        | <u> </u>     | <u> </u>   | <u> </u> | _        | <u> </u>   | _        | Н              |  |
|       | 26  | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | ⊢        | ├—           | ⊢  | <u> </u> | <u> </u> | ⊩  | _        | Н              |  |
|       | 27  | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | ┝        | ├—           | -  | ├-       |          | ⊢  | _        | Н              |  |
|       | 20  | 7                                     | ┝        | ├            | ├  | H        | -        | ├  | $\vdash$ | Н              |  |
|       | 30  | Ì                                     | ├─       | ┝            | ├  | -        | _        |  | -        | Н              |  |
|       | 31  | i                                     | $\vdash$ | 一            | _  | -        |          | <del>                                     </del> | _        | Н              |  |
|       | 32  | V                                     |          | _            |  | -        |          | <del>                                     </del> |          | Н              |  |
|       | 33  | 1                                     |          | _            |  |          | $\vdash$ |  |          | П              |  |
|       | 34  | 1                                     |          |              |  |          |          |  |          | П              |  |
|       | 34<br>35  | 1                                     |          |              |  |          |          |  |          |                |  |
|       | 36<br>37  | √                                     |          |              |  |          |          |  |          |                |  |
|       | 37  | √                                     |          |              |  |          |          |  |          |                |  |
|       | 38  | 1                                     | $\perp$  |              | $oxed{oxed}$   | Ш        |          | _  |          | Ш              |  |
|       | 39  |                                       | _        |              |  | _        |          | _  | _        |                |  |
|       | 40  | 1                                     | _        |              |  |          |          | _  | _        | -              |  |
|       | 41  | 1                                     |          |              | H  |          |          |  | -        | Н              |  |
|       | 42<br>43  | 1                                     | H        | $\vdash$     | $\vdash$   | <u> </u> | -        | <u> </u>   | $\vdash$ | Н              |  |
|       | 44  | 7                                     | H        | -            | H  |          | H        | <u> </u>   | H        | Н              |  |
|       | 45  | 1                                     | $\vdash$ | -            | $\vdash$   | _        | $\vdash$ | ├  | $\vdash$ | $\vdash\vdash$ |  |
|       | 46  | 1                                     | -        | -            | $\vdash$   |          |          | <u> </u>   | $\vdash$ | $\vdash\vdash$ |  |
|       | 47  | 1                                     | $\vdash$ |              | H  |          | -        |  | $\vdash$ | $\vdash$       |  |
|       | 48  | 1                                     |          | $\vdash$     |  |          |          |  | -        | $\vdash$       |  |
|       | 49  | V                                     | -        | -            | -  | -        |          | $\vdash$   | Н        | $\vdash$       |  |
|       | 50  | V                                     |          |              |  |          | -        | _  | Н        | H              |  |
|       |   |                                       |          |              |  |          |          |  |          |                |  |

| Date    |          |            |                |          |          | Claim |       |                      | Date     |          |          |          |          |          |          |  |                 |
|---------|----------|------------|----------------|----------|----------|-------|-------|----------------------|----------|----------|----------|----------|----------|----------|----------|--|-----------------|
| 7       |          |            | Γ              |          | Γ        |       |       |                      |          |          |          |          |          |          |          |  | $\Box$          |
| 1       |          |            |                |          | l        |       | Final | Original             | 6/12/05  |          |          |          |          |          | l        |  |                 |
|         |          |            |                |          |          |       | ij    | rig                  | 12       |          |          |          |          |          |          |  |                 |
| $\perp$ |          |            |                |          | L        | ]     |       |                      |          |          |          |          |          | L        | L        | L  |                 |
|         |          |            |                |          |          |       |       | 51                   | 1        |          |          |          |          |          |          |  |                 |
|         |          |            |                |          |          |       |       | 52                   | Ì        |          |          |          |          |          |          |  |                 |
|         |          |            |                |          |          |       |       | 53<br>54<br>55       | 1        |          |          |          |          |          |          |  |                 |
|         |          |            |                |          | L        |       |       | 54                   |          |          |          |          |          |          |          |  |                 |
|         |          |            | L              |          | L        |       |       | 55                   |          |          |          |          |          |          |          |  |                 |
| $\perp$ |          |            |                |          |          |       |       | 56<br>57             |          |          |          |          |          |          |          |  |                 |
|         |          |            |                |          |          |       |       | 57                   |          |          |          |          |          |          |          | _  |                 |
| $\perp$ | _        |            | _              |          |          |       |       | 58                   | Ш        |          |          | _        |          |          |          |  |                 |
|         |          | lacksquare |                |          | L.       |       |       | 59                   | Щ        |          |          |          | _        |          | _        |  | Щ               |
|         |          |            | L              |          |          |       |       | 60                   |          |          |          |          |          |          | _        | <u> </u>   | Щ               |
| 4       |          |            |                |          |          |       |       | 61<br>62             | Щ        |          |          |          |          |          | _        |  | Щ               |
| -       | ļ        |            | $\vdash$       |          | Щ        |       |       | 62                   | Ŀ        |          | Ш        |          |          | <u> </u> | L-       | L  | Ш               |
| _       | <u> </u> | _          |                |          | L.       |       |       | 63                   | Щ        |          |          |          |          |          | <u> </u> | <u> </u>   | Ш               |
| 4       | <u> </u> | _          | <u> </u>       | _        | L_       |       |       | 64<br>65<br>66<br>67 | Щ        |          |          |          |          | <u> </u> | ļ        | L  | $\square$       |
| +       | $\vdash$ | <u> </u>   | $\vdash$       |          | $\vdash$ |       |       | 65                   | $\vdash$ |          | <u> </u> |          | _        |          | <u> </u> | _  | Щ               |
|         | _        |            | <del> </del> _ |          |          |       |       | 66                   | Ш        |          |          |          |          |          | <u> </u> |  | $\perp$         |
| +       | $\vdash$ | <u> </u>   | $\vdash$       | $\vdash$ | Н        |       |       | 67                   | $\vdash$ | _        | Щ        |          |          |          | <u> </u> | $\vdash$   | Щ               |
| _       | _        |            | ├_             |          |          |       |       | 68                   | Ш        |          |          |          |          |          | <u> </u> | <u> </u>   | Щ               |
| _       |          |            | ⊢              | _        |          |       |       | 69                   | Н        |          |          |          |          | _        | _        | _  | Н               |
| +-      | L        |            | ⊢              |          |          |       |       | 70                   | Н        |          |          | _        | _        |          | _        | _  | Щ               |
| +       | <u> </u> | _          | ⊢              | L        |          |       |       | 71                   |          |          | _        |          |          |          | _        | _  | Ш               |
|         | <u> </u> |            | ├-             | _        | _        |       |       | 72<br>73             |          |          |          |          |          |          | _        | <u> </u>   | $\vdash$        |
| +       | H        |            | ⊢              | _        | _        |       |       | 73                   | -        | _        |          |          |          |          | _        | <u> </u>   | H               |
| +       | H        |            | ⊢              | _        |          |       |       | 74<br>75<br>76       | Н        |          |          |          | _        |          |          | _  | Щ               |
| +-      | -        |            | ⊢              |          | $\vdash$ |       |       | 75                   | Н        |          |          |          |          | _        | _        | <u> </u>   | -               |
| +       | H        | _          | ├              | _        | -        |       |       | 77                   | Н        |          |          | _        |          | _        | _        | H  | Н               |
|         | ┝        |            | ⊢              | -        | -        | H     |       | 78                   | H        |          | _        |          | _        | _        |          | -  | -               |
| +-      | H        |            | H              | H        | $\vdash$ |       |       | 79                   | Н        | _        |          |          |          | _        | _        | <u> </u>   | $\vdash$        |
| +-      | -        |            | -              | -        | _        |       |       | 90                   | Н        | _        | _        | $\vdash$ |          |          | _        | $\vdash$   | Н               |
| +       |          |            | H              | -        | -        |       |       | 80<br>81             | Н        |          |          |          | _        |          |          |  | Н               |
|         |          |            | -              | -        | $\vdash$ |       |       | 82                   | $\vdash$ | $\vdash$ |          |          |          | H        | H        | -  | $\vdash$        |
| +       | $\vdash$ | -          | -              | -        | $\vdash$ |       |       | 83                   | Н        | $\vdash$ |          | H        |          |          |          | <del> </del>                                     | $\vdash$        |
| +       | $\vdash$ |            | Η-             | $\vdash$ | $\vdash$ |       |       | 83<br>84             | Н        | -        |          | $\vdash$ |          |          | $\vdash$ | <del> </del>                                     | $\vdash$        |
| +       | Н        |            | Ι-             |          |          |       |       | 85                   | Н        | $\vdash$ | $\vdash$ | Н        | $\vdash$ |          | $\vdash$ | -  | $\vdash$        |
| +       | Н        | -          | $\vdash$       | $\vdash$ | Н        |       |       | 86                   | Н        | $\dashv$ | $\vdash$ | Н        | $\vdash$ | -        | $\vdash$ | $\vdash$   | $\vdash \vdash$ |
| +       | $\vdash$ |            | $\vdash$       | $\vdash$ | -        |       |       | 87                   | -        |          | -        |          |          |          |          | H  | Н               |
| +       | Н        |            | 1              | -        |          |       |       | 88                   | Н        | $\dashv$ | Н        | $\vdash$ |          | $\vdash$ |          | <u> </u>   | $\vdash$        |
| +       | Н        |            | П              | $\vdash$ |          |       |       | 88<br>89             | Н        | $\dashv$ | $\vdash$ | $\vdash$ |          | _        | _        | <del>                                     </del> | Н               |
| $\top$  | Н        |            |                | $\vdash$ |          |       |       | 90                   | Н        | -        | $\vdash$ | $\vdash$ |          | _        | $\vdash$ | $\vdash$   | Н               |
| $\top$  | $\vdash$ |            |                | $\vdash$ |          |       |       | 91                   |          | _        | $\vdash$ | $\vdash$ | $\vdash$ | -        | $\vdash$ |  | Н               |
| $\top$  | Н        |            |                |          |          |       |       | 92                   |          | $\neg$   |          | М        |          |          | П        | $\vdash$   | Н               |
| $\top$  | Н        | _          | П              | Н        |          |       |       | 93                   |          |          |          | $\Box$   |          |          |          |  | Н               |
| 1       |          |            | П              | П        |          |       |       | 94                   | Н        |          |          |          | П        |          |          |  | H               |
| $\top$  | П        | _          | Г              | П        |          |       |       | 95                   | П        | $\neg$   | $\sqcap$ | $\Box$   | П        |          |          | $\Box$   | Н               |
| $\top$  |          |            | П              | Н        |          |       |       | 96                   |          |          | $\vdash$ |          |          |          | $\vdash$ |  | Н               |
|         |          |            | П              |          |          |       |       | 97                   |          |          |          |          |          |          |          |  | Н               |
| 1       | $\vdash$ |            | П              |          |          |       |       | 98                   |          |          |          |          |          |          |          |  | $\dashv$        |
|         | $\vdash$ |            | П              | Н        |          |       |       | 99                   | $\Box$   | $\neg$   |          |          |          |          |          | $\vdash$   | $\sqcap$        |
| 1       |          |            | Г              | П        |          |       |       | 100                  | П        |          | П        | П        |          |          |          |  | П               |
|         |          |            |                |          |          | , ,   |       |                      |          |          | _        |          | _        |          |          | _  | ۳               |

| Claim |   | Date     |              |          |              |          |          |          |  |                |
|-------|---|----------|--------------|----------|--------------|----------|----------|----------|--|----------------|
|       |   | Г        | Г            | Г        | T            |          |          | _        |  | П              |
| Final | Original                                      |          |              |          |              |          |          |          |  |                |
|       | 101   | Г        |              |          |              |          |          | $\vdash$ |  | П              |
|       | 102<br>103                                    |          |              |          |              |          |          | Г        |  | П              |
|       | 103   |          |              |          |              |          |          |          |  |                |
|       | 104   |          |              |          |              |          |          |          |  |                |
|       | 104<br>105                                    |          |              |          |              |          |          |          |  |                |
|       | 106   | L        |              |          |              |          | <u> </u> |          |  |                |
|       | 107<br>108                                    | _        |              |          |              |          | <u> </u> |          |  | Ц              |
|       | 108   | <u> </u> | Ш            |          | _            | <u> </u> | <u> </u> | <u> </u> |  | Ш              |
|       | 109   | <u> </u> |              | _        | <u> </u>     |          | <u> </u> | <u></u>  | _  | Н              |
|       | 110   | ⊢        |              | _        | <u> </u>     | _        | <u> </u> | ļ        | -  | Н              |
|       | 111   | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$     |          | -        | ⊢        | <del> </del>                                     | Н              |
|       | 112   |          | -            | _        | <del> </del> | $\vdash$ | $\vdash$ | ├        | -  | Н              |
|       | 114   | $\vdash$ | <del> </del> | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$ | ├        | -  | Н              |
|       | 115   | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$ | <del>                                     </del> | Н              |
|       | 110<br>111<br>112<br>113<br>114<br>115<br>116 | $\vdash$ | H            | _        | ┢            | $\vdash$ | $\vdash$ | -        | <del>                                     </del> | Н              |
|       | 117   | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$ | H  | $\vdash$       |
| -     | 118   | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$       |
|       | 118<br>119                                    | -        | $\vdash$     |          | $\vdash$     | $\vdash$ | _        | _        |  | Н              |
|       | 120   |          | $\vdash$     | _        | $\vdash$     | <u> </u> | H        |          | T  | П              |
|       | 121   | $\vdash$ |              |          |              |          |          |          |  | Н              |
|       | 121<br>122                                    |          |              |          |              |          |          |          | $\vdash$   | П              |
|       | 123   |          |              |          | Г            |          | Г        |          |  | П              |
|       | 124<br>125                                    |          |              |          |              |          |          |          |  | П              |
|       | 125   |          |              |          |              |          |          |          |  |                |
|       | 126<br>127<br>128                             |          |              |          |              |          |          |          |  |                |
|       | 127   | L        |              |          | _            | _        | <u> </u> |          | L  | Ш              |
|       | 128   | L        |              | L        |              | L        |          |          | _  | Ш              |
|       | 129<br>130                                    | _        |              | _        | <u> </u>     | L.,      | <u> </u> | L_       | _  | Щ              |
|       | 130   | L        |              | L        | <u> </u>     | <u> </u> |          |          | L  | Ш              |
|       | 131   | Ш        | $\vdash$     | <u> </u> | <u> </u>     | <u> </u> | L.       | <u> </u> | <u> </u>   | Ш              |
|       | 132   | H        | $\vdash$     | $\vdash$ | <u> </u>     | <u> </u> | _        |          |  | Щ              |
|       | 133   | $\vdash$ | $\vdash$     | $\vdash$ | <u> </u>     | <u> </u> | <u> </u> |          | L  | Н              |
|       | 134<br>135                                    | $\vdash$ | $\vdash$     | -        | <u> </u>     | H        | H        | <u> </u> |  | Н              |
|       |   | $\vdash$ | -            | -        | <u> </u>     | $\vdash$ | -        | _        |  | $\vdash\vdash$ |
|       | 136   |          | $\vdash$     | -        |              | -        | -        |          | $\vdash$   | Н              |
|       | 137<br>138                                    | -        | $\vdash$     |          | -            | -        |          | ⊢        |  | ${\mathbb H}$  |
|       | 139   | -        | H            |          | -            | -        | -        | _        |  | H              |
|       | 140   | $\vdash$ | $\vdash$     | $\vdash$ |              | $\vdash$ | -        | _        | $\vdash$   | Н              |
|       | 141   | -        | $\vdash$     | -        | -            | $\vdash$ |          | _        |  | H              |
|       | 142   |          |              |          |              |          | Н        | Η.       |  | Н              |
|       | 143   |          |              |          |              |          |          |          |  | H              |
|       | 144   |          |              | $\vdash$ |              | Т        | $\vdash$ |          | П  | Н              |
|       | 145   |          |              |          |              |          |          |          |  | Н              |
|       | 146   |          |              | П        |              |          | $\Box$   | Г        |  | Н              |
|       | 147   |          | П            |          |              | П        | П        | Т        | П  | Н              |
|       | 148   |          |              |          |              |          |          |          |  | П              |
|       | 149   |          |              |          |              |          |          |          |  |                |
|       | 150   |          |              |          |              |          |          |          |  |                |